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APPLICATION OF THATE FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559,368 04/21/2006	Jan Ove Gjerde	BRYN/0009	5655
26290 7590 05/29/2008 PATTERSON & SHERIDAN, L.L.P.		EXAM	IINER
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SUITE 1500 HOUSTON, TX 77056		ART UNIT	PAPER NUMBER
110051011, 12 / / / / / / / / / / / / / / / / / /		3628	
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		05/29/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
		GJERDE ET AL.					
Office Action Summary	10/559,368						
<i></i>	Examiner	Art Unit					
The MAILING DATE of this communication app	Igor N. Borissov	3628 correspondence address					
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS fron , cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 21 A	oril 2006.	•					
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.	•					
3) Since this application is in condition for allowar	•						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ⊠ Claim(s) <u>1-42</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-42</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.						
Application Papers							
 9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>05 December 2005</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination 	re: a) \bigotimes accepted or b) \bigotimes object drawing(s) be held in abeyance. Set ion is required if the drawing(s) is ob-	ee 37 CFR 1.85(a). pjectēd to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicative documents have been received in CPCT Rule 17.2(a)).	tion No red in this National Stage					
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/05/2005.	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date					

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-33 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 1 recites: "calculating whether ON or OFF constitutes a correct condition for any connected non-durable consuming apparatus, on the basis of information contained in said broadcast control signals, stored algorithms and End-user adjustable parameter value settings, turning connected non-durable consuming apparatuses on and off in accordance with the results of said calculating," which is confusing. The specification does not provide support for the recited feature.

Same reasoning applied to claim 20.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 34-41 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 34 recites: "A computer program product containing <u>any</u> of software code portions and computer program elements...", which is confusing. It is not clear which software code portions and computer program elements are considered.

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For claims 36 and 40, it is totally unclear what is being claimed here. Is applicant just claiming a data signal (in a carrier wave), is the claim directed to a method as the body of the claim may suggest, or intended use of a system? The signal represents instructions, but what is the signal? The fact that it represents instructions that do A, B, and C, defines nothing about the signal. Maybe this is supposed to be a method claim? The scope of this claim is not clear.

Claim 41 is confusing, because it is not clear which part of the claim represents known features of the prior art or states intended use of the invention, and which recites novel features of the invention.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-24, 26-38, and 40-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ehlers et al. (US 5,572,438).

Ehlers teaches a method for automatic management of demand for non-durables, said method comprising:

Claims 1, 20, 34, 36, 40-42,

providing at End-users' premises specialized electronic boxes (C. 8, L. 12-18; C.

9, L. 42), having microprocessor capability for performing the following functions:

receiving broadcast control signals from a Multi Utility provider (C. 25, L. 9-10, 16-17),

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End-users programming said boxes by setting parameter values in accordance with End-users' priorities (C. 10, L. 28-30),

broadcasting from a Multi Utility provider a control signal to be received by said boxes (C. 12, L. 17-18),

said boxes taking automatic turn-off or turn-on action for some non-durable consuming apparatuses in accordance with stored control algorithms, parameter values set by said End-users and information provided by said control signal (C. 13, L. 41-59), and

said boxes transmitting back to said Multi Utility provider instant or semi-instant non-durable consumption values at said End-users' premises (C. 15, L. 9-11), thereby collectively influencing market pricing of said non-durables (C. 32, L. 46-55).

Ehlers does not explicitly teach calculating whether ON or OFF constitutes a correct condition for any connected non-durable consuming apparatus, on the basis of information contained in said broadcast control signals, stored algorithms and End-user adjustable parameter value settings, turning connected non-durable consuming apparatuses on and off in accordance with the results of said calculating.

However, Ehlers teaches calculating a status flag of each device on the system, checking the status flag and generating a command to restore power to the load, said status flag is changed whether the load in ON or OF condition, wherein said status flag is changed, also, during timed event (C. 25, L. 32-36).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Ehlers to include calculating whether ON or OFF constitutes a correct condition for any connected non-durable consuming apparatus, on the basis of information contained in said broadcast control signals, stored algorithms and End-user adjustable parameter value settings, turning connected non-durable consuming apparatuses on and off in accordance with the results of said calculating, as suggested in Ehlers, because it would advantageously prevent the load from being turned on when the load shedding operation was initiated by the power utility, as specifically stated in Ehlers (C. 25, L. 37-41).

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Claim 2. The method of claim 1, wherein said End-users set parameter values in accordance with estimated importance (priority) of their various apparatuses (C. 12, L. 32-33; C. 29, L. 59-63).

Claim 3. The method of claim 1, wherein said End-users set parameter values based on pricing of the non-durables (C. 12, L. 17-18).

Claim 4. The method of claim 1, wherein said Multi Utility provider broadcasts a control signal containing pricing information regarding said non-durables (C. 12, L. 2-18; C. 15, L. 7-8).

Claim 5. The method of claim 1, wherein said End-users set parameter values based on pricing of the non-durables (C. 12, L. 17-18).

Claim 6. The method of claim 1, wherein said Multi utility provider broadcasts a control signal containing information regarding rationing (C. 3, L. 18-22).

Clam 7. The method of claim 1, wherein said Multi Utility provider provides at least one of electrical energy, thermal energy, gas and freshwater to a community of End-users (C. 15, L. 7-8).

Claims 8 and 9. The method of claim 1, wherein said Multi Utility provider broadcasts the control signal via at least one commercial radio broadcasting station (C. 3, L. 7-9; C. 9, L. 26-32).

Claim 10. The method of claim 1, wherein said Multi Utility provider broadcasts the control signal via a satellite radio broadcast system (use of TV suggests satellite communication).

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Claim 11. The method of claim 1, wherein said boxes transmit back consumption values via any of a telephone network and a mobile telephone network (C. 15, L. 12).

Claim 12. The method of claim 1, wherein communication between said electronic boxes and said non-durable consuming apparatuses inside said End-users' premises is effected by use of PLC technology, preferably in accordance with an X10 standard (C. 15, L. 14).

Claim 13. The method of claim 1, wherein any one of said electronic boxes is physically or functionally divided in an intelligent home gateway and a metering gateway, said intelligent home gateway receiving said control signals, decoding them, calculating ON and OFF conditions for all connected apparatuses and transmitting turn-off and turn-on commands to bring said apparatuses into the calculated condition, while also communicating with said metering gateway, and said metering gateway performing two-way communication with said intelligent home gateway, performing communication with at least one non-durables metering device, and transmitting at least metering data to said Multi Utility provider (see reasoning applied to claim 1).

Claim 14. The method of claim 13, wherein said intelligent home gateway transmits commands for turning connected apparatuses in an End-user's premises off and on, via a Power Line Carrier (PLC) system, preferably an X10 system (C. 5, L. 22).

Claim 15. The method of claim 13, wherein said intelligent home gateway turns off connected apparatuses in an End-user's premises in accordance with non-durable price thresholds set by the End-user for respective apparatuses or for respective apparatus groups (see reasoning applied to claim 1).

Claim 16. The method of claim 13, wherein said intelligent home gateway turns off connected apparatuses in an End-user's premises in accordance with a rationing

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command from said Multi Utility provider and non-durable consuming apparatus priority settings entered by the End-user (C. 3, L. 18-22 and reasoning applied to claim 1).

Claim 17. The method of claim 1, wherein non-durables production in distributed generation units (DG) attached to any of industrial End-users, commercial End-users and groups/communities of private End-users, is governed by said electronic boxes and in accordance with the End-users' settings and priorities (See reasoning applied to claim 1).

Claim 18. (New) The method of claim 17, wherein a distributed generation unit (DG) attached to a group/community of private End-users is governed by an algorithm taking all said private End-users' settings and priorities into consideration, said algorithm being stored in a computer memory in a computer dedicated for controlling said distributed generation unit and being in communication with said electronic boxes (See reasoning applied to claim 1).

Claim 19. The method of claim 1, wherein service restoration from said Multi Utility provider after an outage situation is effected by broadcasting restoration signals to bring about step-wise turning on loads at End-users' premises by appropriate action by said electronic boxes (C. 25, L. 16-20).

Claims 21-24, 26-33, 35, 37 and 38, see reasoning applied above.

Claims 25 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ehlers et al. (US 5,572,438) in view of Ehlers et al. (US 2004/0117330 A1).

Claims 25 and 39. Ehlers '438 teaches all the limitations of claims 25 and 29, except that said broadcasting network includes microprocessor capability for encrypting data to be broadcast to End-users.

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Ehelrs '330 teaches a method and system for controlling usage of a commodity, wherein data communicated between end users and utility provider is encrypted [0302].

In this case each of the elements of the cited references combined by the Examiner performs the same function when combined as it does in the prior art. Thus, such a combination would have yielded predictable results. See Sakraida, 425 U.S. at 282, 189 USPQ at 453. Therefore, Supreme Court Decision in *KSR International Co. v. Teleflex Inc.* (KSR, 82 USPQ2d at 1396) forecloses the argument that a specific teaching, suggestion, or motivation is required to support a finding of obviousness. See the recent Board decision Ex arte Smith, --USPQ2d--, slip op. at 20, (Bd. Pat. App. & Interf. June 25, 2007).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Igor Borissov whose telephone number is 571-272-6801. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W. Hayes can be reached on 571-272-6708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Igor N. Borissov/ Primary Examiner, Art Unit 3628 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

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	B1	WO 02/069471 A1	9-6-2002	Gundersen, et al.			
	B2	DE 198 50 496 A1	5-4-2000	Huberty, et al.			
		 					
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Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2
	C1	International Search Report dated 20 October 2004 from the Swedish Patent Office for International Application No. PCT/NO2004/000163.	
	C2	International Preliminary Report on Patentability from the European Patent Office for International Application No. PCT/NO2004/000163.	
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Notice of References Cited Application/Control No. | Applicant(s)/Patent Under Reexamination GJERDE ET AL. | Examiner | Art Unit | Page 1 of 1

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-7,130,719	10-2006	Ehlers et al.	700/276
*	В	US-6,574,581	06-2003	Bohrer et al.	702/130 ·
*	С	US-2007/0255461	11-2007	Brickfield et al.	700/295
*	D	US-2004/0117330	06-2004	Ehlers et al.	705/412
*	Е	US-2003/0055676	03-2003	Huneycutt, Timothy	705/1
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